2015

TPMS GT-User manual

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1.1. Product Introduction

TPMS GT Features
Tire Pressure Monitor(TPM)
Tire Temperature Monitor
Tire Pressure Lower/Upper Alarm
Tire Temperature Upper Alarm
Prompt of Tire Temperature is Rising Continually
Suggest Prompt of Tire Temperature
Tire Pressure Abnormal Alarm
Tire Air Leaking Slowly Alarm
Tire Surveillance Analysis(TSA)
Tire Sensor Monitor(TSM)
Real Time Clock(RTC) Display

1.2. How to Work

Tire wireless sensors transmitting data's:

- Tire pressure
- Tire Temperature
- Tire sensors batteries voltage

Monitor screen is shown on the TFT LCD with cigarette lighter cable as power line

1.3. Package Content

(Host package)

Description	Q'ty(Pcs)
Host unit(TFT LCD)	1
Cigarette lighter Cable	1
Tire sensor	10
Tire sensor battery (CR1632)	10
Anti-thief nut	10
(Tire sensor spanner)	1
Mounting bracket	1
Antenna	1
Antenna mounting bracket	1
Antenna extension cable (including convertor)	1
User manual	1

(Accessories package)

Description	Q'ty(Pcs)
Tire sensor	12
Tire sensor battery (CR1632)	12
Anti-thief nut	12
(Tire sensor spanner)	1
(Position sticker)	1
User manual	1

1.4. Host Unit Layout

2.1. Host Unit Installation/Cigarette lighter Connection

Step 1：Connection between host and cigarette lighter with power line

(1) Connector of circle shape connects power port (DC-Jack) on host side.

(2) Connector of cigarette lighter connects cigarette lighter port on the vehicle.

Step 2：

(1) Turn on the vehicle that engine is booted.

(2) TFT LCD will be booted automatically.

Note：

If engine is shut down, the power of host will not turn off will be required unplug the cigarette lighter to avoid battery power of vehicle consumption.

3.1. Tire Sensor-Position

Step 1：Tire sensors position and label

The sensors positions come with individual label to indicate the position from the tire.

The sensors shall be installed according to the design position.

3.2. Tire Sensor-Battery Installation

Step 2：Tire Sensor Battery Installation

The tire sensors come with Lithium CR1632 original Swiss made military spec. battery.

(1) Prepare the sensor battery CR1632 Lithium, locate and understand the +/- polarity.
(2) Remove sensor cap by unscrew it from the sensor metal body.
(3) Remove the battery metal cover by unclip the both clips (short and long clips).
(4) Place the battery in correct polarity.
(5) Place the battery cover in place and press the both clips with proper closure.
(6) Close the sensor cap by screwing tightly.
(7) In order the tire sensor work properly, the screen of host tire sensor battery reading shall be minimum 2.8 Voltage. Replace sensor battery when voltage reading under 2.8 Voltage.

3.3. Tire Sensor-Installation on Tire

Step 3： Installation Tire Sensor on vehicle tire

Before installation please is sure the position of each sensor shall be correctly placed.

(1) Remove tire-valve cap
(2) Screw-in of clockwise direction the safety lock not into tire-valve.
(3) Place the tire sensor on designated position.
(4) Screw it tightly.
(5) Screw-in of counterclockwise direction that sensor and anti-thief nut tightly with dedicated spanner.

Note:

The tire sensor shall be fitted and screw tightly to avoid tire pressure leakage.

3.4. Frequently Asked Questions (FAQ)

(1) FAQ 1：After Host turned on for 5 minutes, it still shows failure of receiving wireless signal

Solution：

1. Please make sure if the batteries are in reverse.
   (Negative is poured at bottom side and positive at upper side)
2. Please make sure the snap of battery is in close of the batteries.
3. Please make sure if voltages in the batteries are enough; please replace with new ones if less than 2.8 Voltage.
4. Please disassemble the battery, replace the battery once.
5. Please turn the lid off and check if penetration of any vapor occurred which caused battery snap or rust and malfunction.
6. Make sure an antenna installation and check connection between a SMA port on host side and extend antenna tightly.

(2) FAQ 2：The tire always shows「-」when one doesn't get data of RF signal.

Solution：

1. Please go away there. (Perhaps it has strong interference of wireless signal)
2. Please check power of sensor battery, please replace new battery it if one is less than 2.8 voltage.
3. Please contact with dealer.

(3) FAQ 3：I bought this product, but tire sensor is no label such as repeat and lost what I can do？

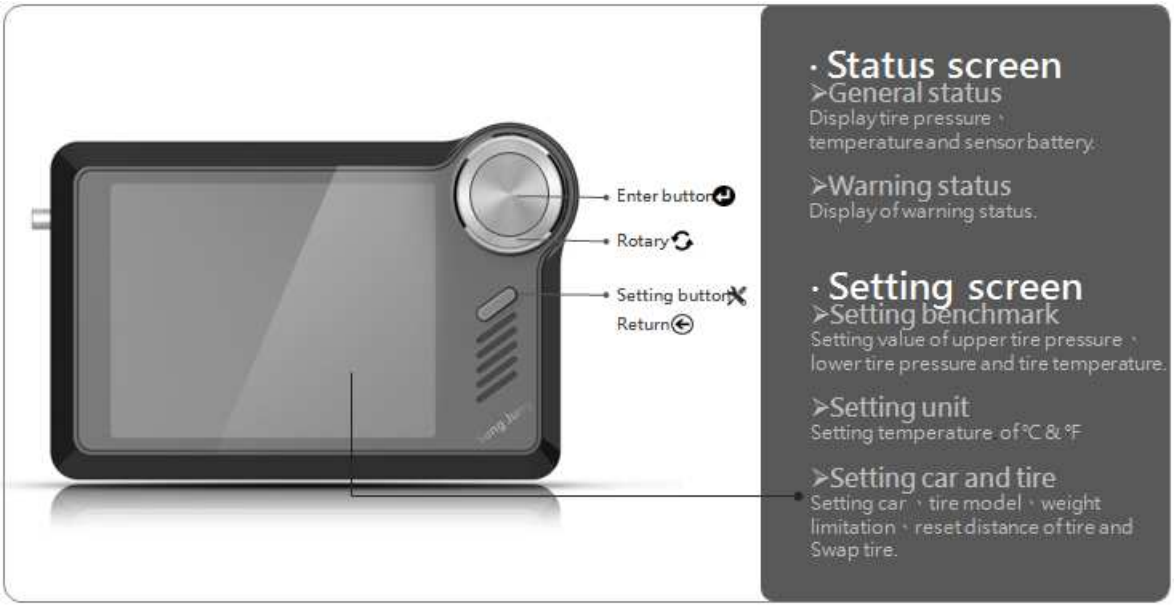
Solution：

We already have paired sensor with host, please contact with dealer if your problem as below.

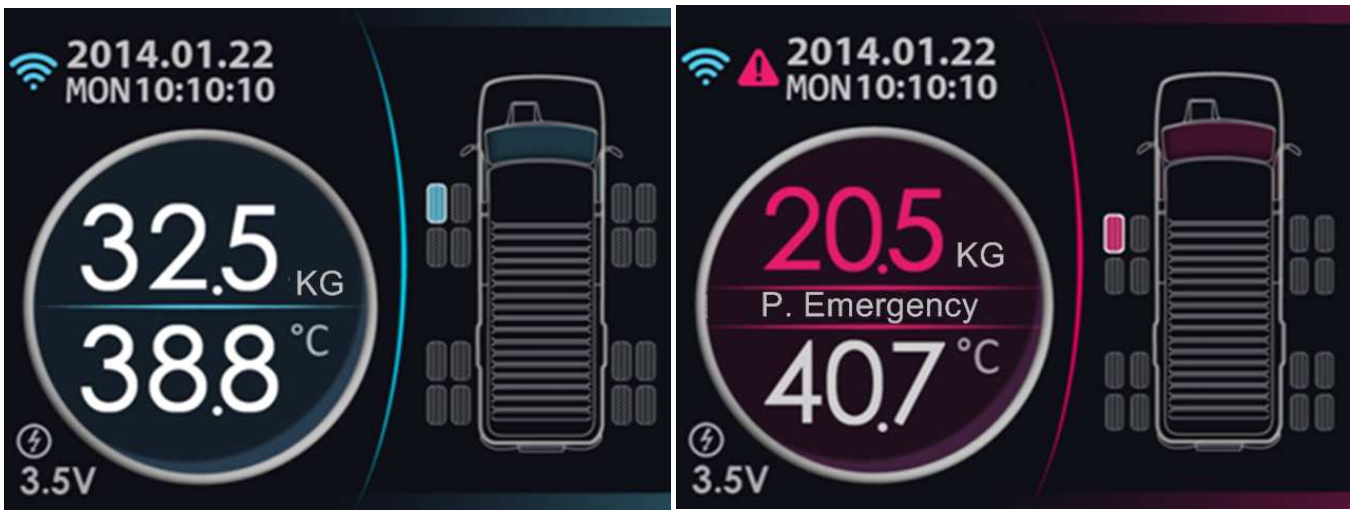
Note

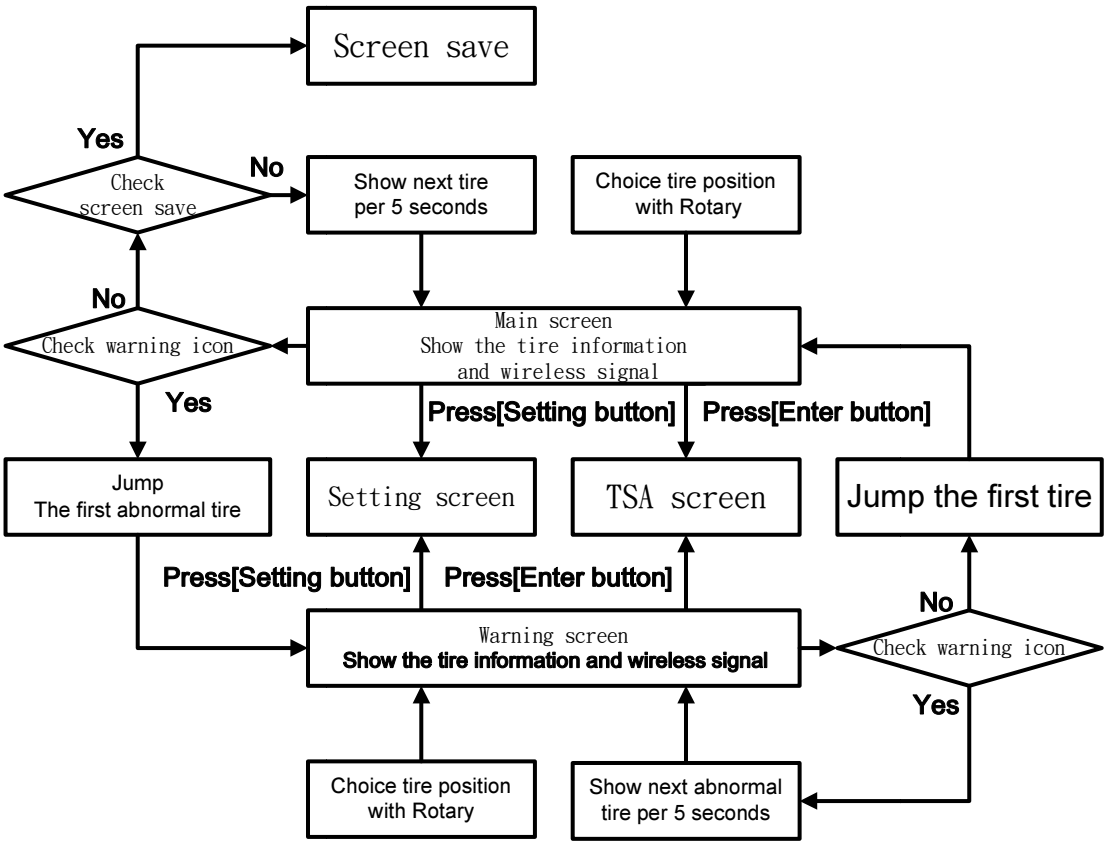
The system is operated on wireless signal, under certain situation, the system may be unable to receive or reduce down the wireless signal as a result of environment intervention, mistakes made during operation and improper installation.

4.1. Function and Setting Button



4.2. Operating of Main Screen





4.3. Wireless Signal Received of Tire Sensor

(1) Host will be received wireless signal separately when engine is booted, and then tire icon will become colors from black to blue (Normal status) or red (abnormal status).

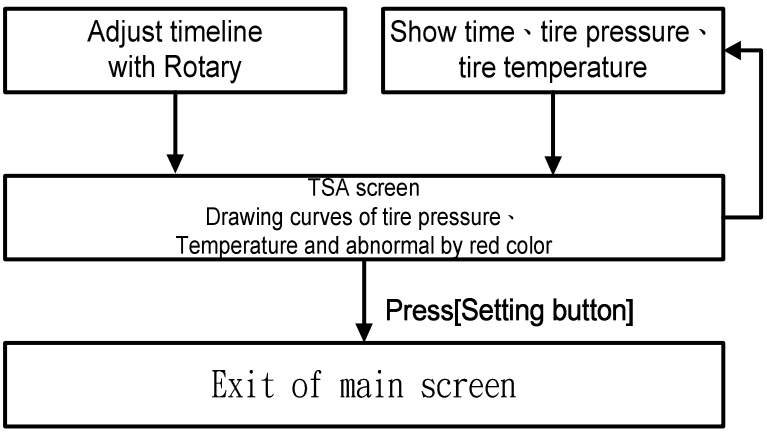
(2) All sensors is ready depends on car model.

(3) Show animation on top-left corner when host will be received data from data.

4.4. Tire Surveillance Analysis (TSA)

(1) TSA which show detail information such as tire pressure/temperature by time curve
(2) Tire pressure curve as above and tire temperature as below.
(3) User can choose timeline(x- axle) with Rotary that easy to show point of time.
(4) Top-left corner on screen show date and time.
(5) Middle-left corner on screen show tire pressure of custom time, middle-corner on screen show abnormal status if it has occur.
(6) Bottom-left corner on screen show tire temperature of custom time, bottom-middle on screen show current page/total page.

TSA screen


Adjust timeline with Rotary
Show time、tire pressure、tire temperature
TSA screen
Drawing curves of tire pressure、Temperature and abnormal by red color
Press[Setting button]
Exit of main screen

5.1. Function and Setting

(1) Setting as below

A. P. U-Limit (Set Tire Pressure Upper Limit)
Set tire pressure upper limit, it will be shown abnormal status if value of tire pressure is more than your setting.

B. P. L-Limit (Set Tire Pressure Lower Limit)
Set tire pressure lower limit, it will be shown abnormal status if value of tire pressure is less than your setting.

C. T. Limit (Set Tire Temperature Limit)
Set tire temperature upper limit, it will be shown abnormal status if value of tire temperature is more than your setting.

D. P. Unit (Set Tire Pressure Unit)
Switch unit of pressure as psi, bar, kg/cm^2 & kPA.

E. T. Unit (Set Tire Temperature Unit)
Switch unit of temperature as ℃ & ℉.

F. Car Model
There are ten type of car model can be chosen.

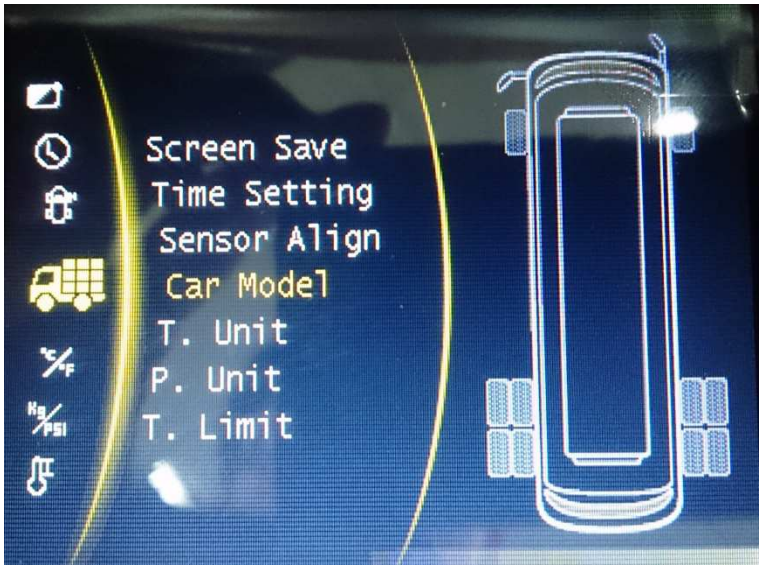
G. Sensor Align
User can be swapped/replace/pair by this function.

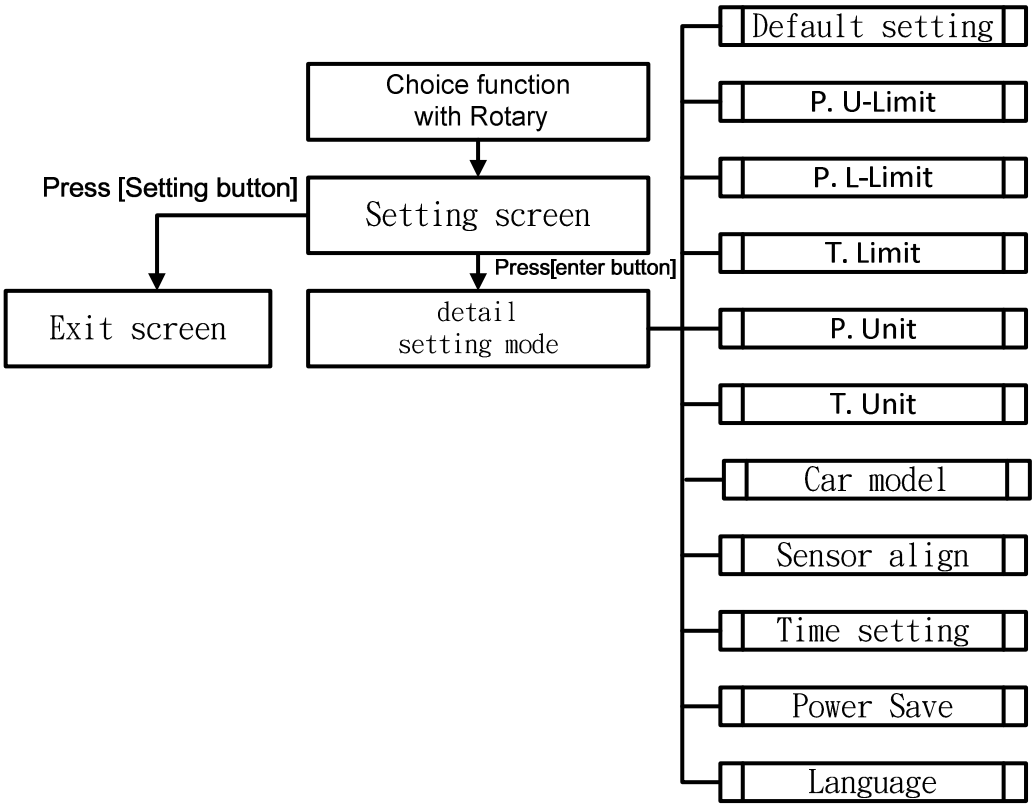
H. Time Setting
Host provides RTC(Real Time Clock) function, please set time if you need TSA function.

I. Screen Save
Set time of screen save which has 1、2 and 5 minute for choice. It will be disabled if warning status.

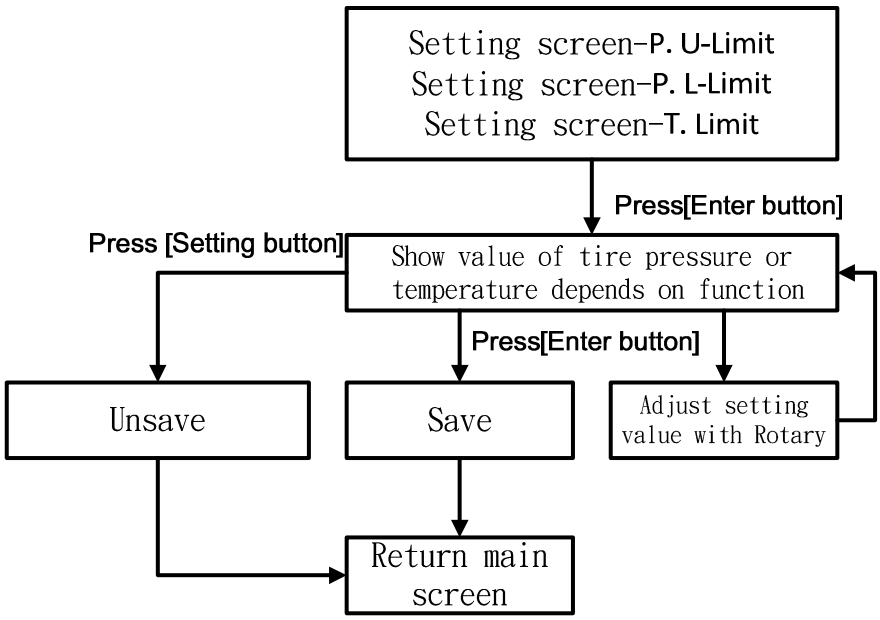
J. Language
There are languages what you can choose English and traditional Chinese .

K. Default
Help user to set up all functions.

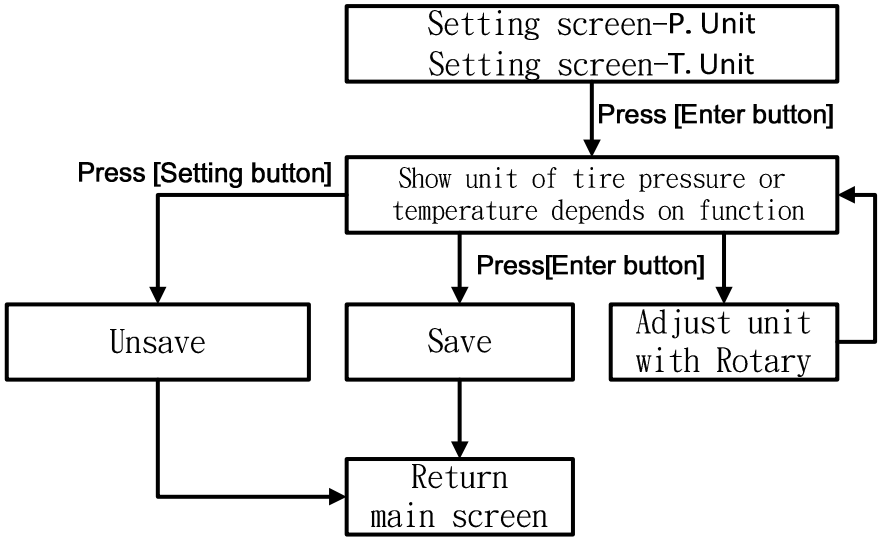




5.2. Limit Setting of Tire Pressure / Temperature



5.3. Unit Setting of Tire Pressure / Temperature

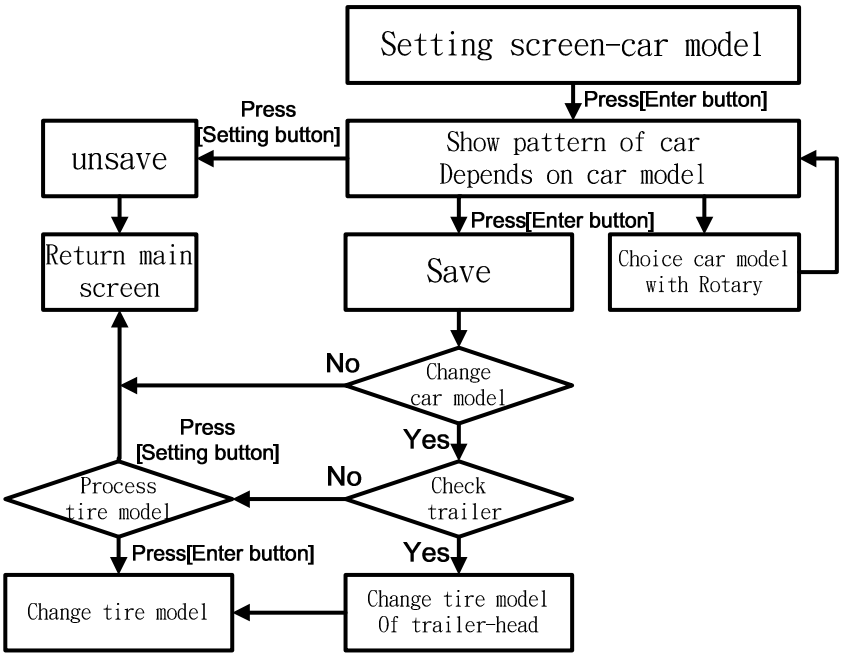


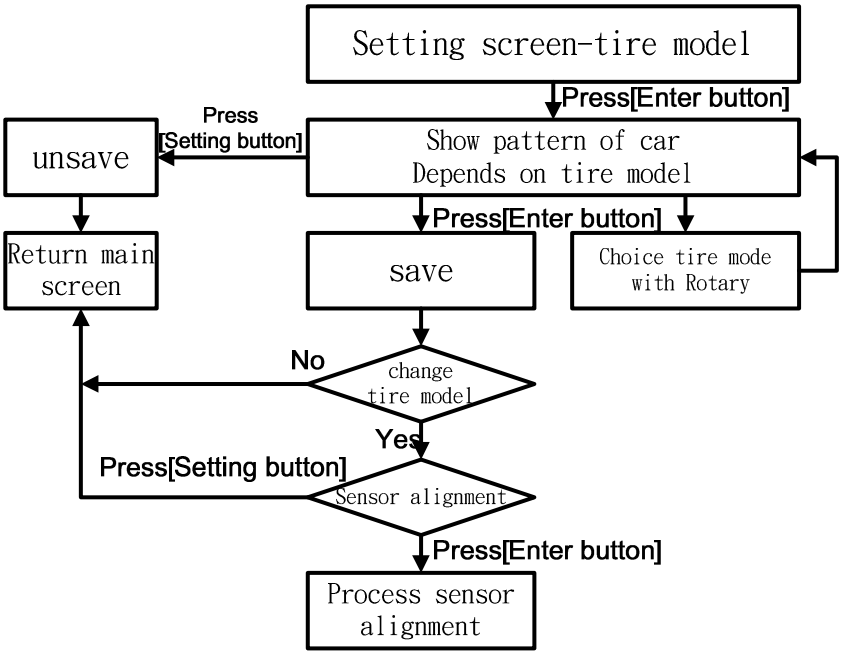
5.4. Car Model/Tire Model

There are ten models of car as below：

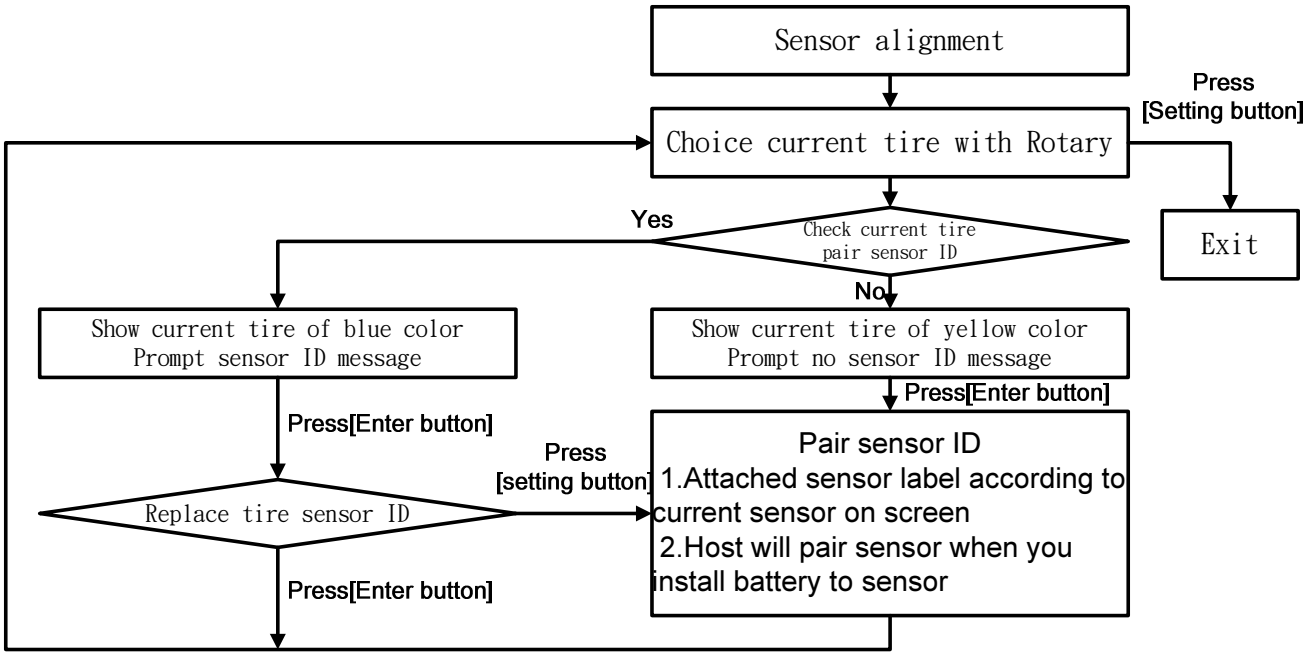
(1) Single Tow
(2) Motorhome T1
(3) Motorhome T2
(4) Caravan
(5) Tourbus
(6) Truck
(7) Pickup
(8) Sedan
(9) Hatchback
(10) Car

Host will apply when you set up completed

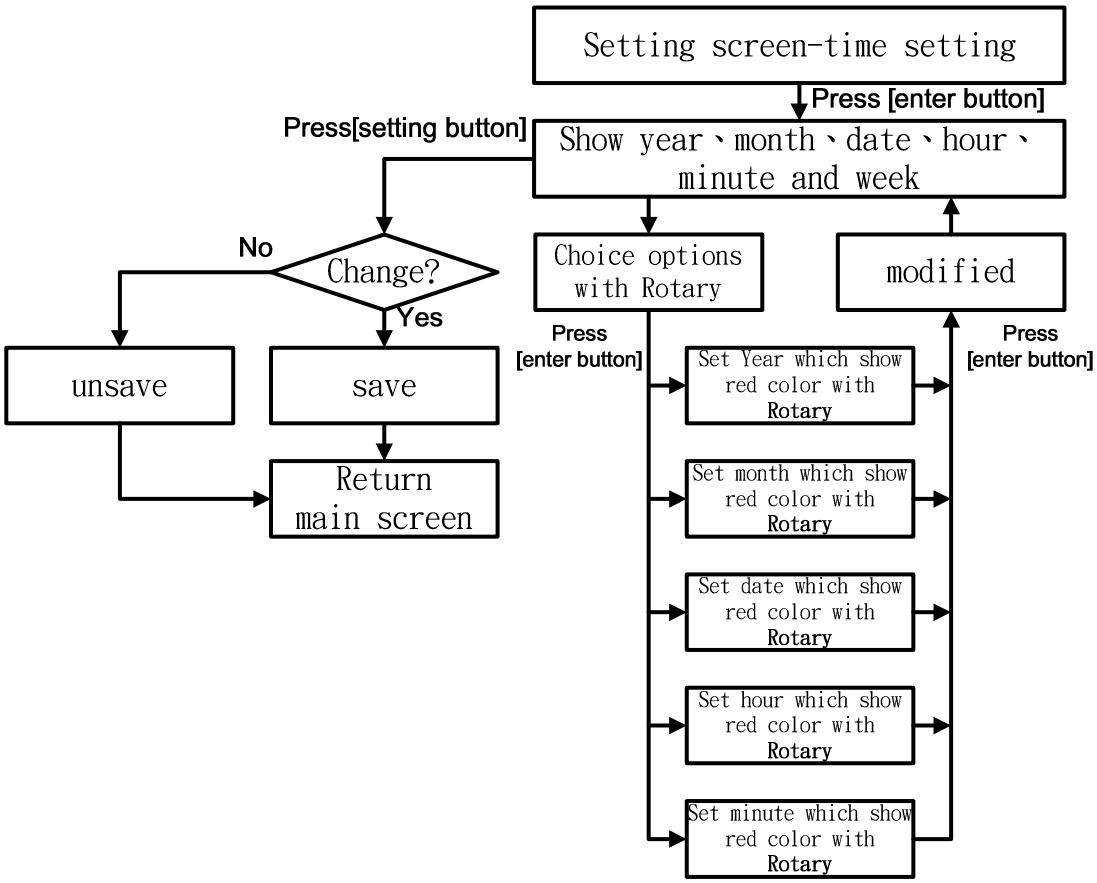

Setting screen-car model
Press[Enter button]
Press
[Setting button]
unsave
Show pattern of car
Depends on car model
Press[Enter button]
Return main
screen
Save
Choice car model
with Rotary
No
Change
car model
Yes
Press
[Setting button]
No
Process
tire model
Check
trailer
Press[Enter button]
Yes
Change tire model
Change tire model
Of trailer-head


Setting screen-tire model
Press[Enter button]
Press
[Setting button]
unsave
Show pattern of car
Depends on tire model
Press[Enter button]
Return main
screen
save
Choice tire mode
with Rotary
No
change
tire model
Yes
Press[Setting button]
Sensor alignment
Press[Enter button]
Process sensor
alignment

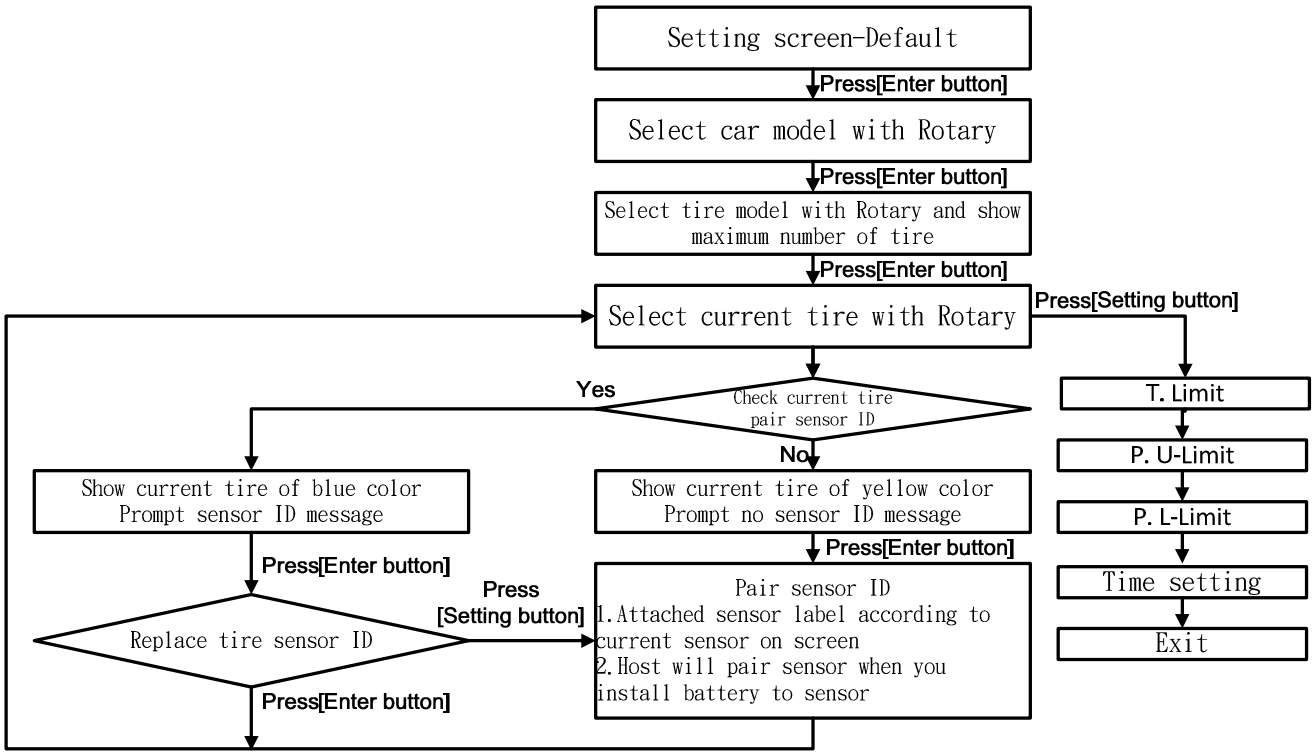
5.5. Sensor Alignment



5.6. Time Setting



5.7. Default Setting



7.1. Specifications

Host unit		Tire Sensor	
Voltage(V)	**12 ~ 24 V**	**Voltage(V)**	**3 V**
Current(mA)	**150 mA (Max)**	**Battery type**	**CR1632**
Operating temperature(℃)	**-20～70 ℃**	**Operating temperature(℃)**	**-40～85 ℃**
Storage temperature(℃)	**-30～80 ℃**	**Radio frequency(MHz)**	**433.92 MHz**
Radio frequency(Mhz)	**433.92 MHz**	**Battery life**	**1year(※)**

(※)The original sensor battery supplied with CR1632 which made by Swiss
Battery usage lift time depend on environment and battery brand and formula

Disclaimer
The information provided in this user manual doesn't mean all inclusive. All users have to observe and comply with the vehicle manufacturer specification and all available safety regulation.

8.1. Notice

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any change or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To comply with the FCC RF exposure compliance requirements.